

Reply to Office Action of 08/15/2005
Amendment Dated: November 13, 2005

Appl. No.: 09/987,527
Attorney Docket No.: CSCO-013/4846

Amendments to the Specification

Please replace the paragraph beginning at page 4 line 7, with the following rewritten paragraph:

Thus, using protocols such as SIP, a mobile node may operate from different locations having different IP addresses. However, the approach(es) of above would operate accurately only when sessions (or applications) are started afresh in the new location, but not for sessions ("active session") which may be active when a mobile node moves to a new location. In other words, for sessions initiated after the move, the new layer-3 address would be used consistently by both the mobile node and the correspondent node, and communication would thus be established accurately.

Please replace the paragraph beginning at page 9 line 1, with the following rewritten paragraph:

Networks 111, 151 and 191 represent layer-3 networks in locations 101, 102 and 103 respectively. Each network (e.g., 111) provides connectivity among the connected components (e.g., server 130, router 120-A and mobile node 110-A). Routers 120-A, 120-B and 120-C are respectively shown connecting networks 111, 151 and 191 to internet 150. Networks 111, 151 and 191, routers 120-A, 120-B and 120-C and Internet 150 may be implemented using Internet Protocol (IP) in a known way.

Please replace the paragraph beginning at page 12 line 12, with the following rewritten paragraph:

By configuring router 120-C, correspondent node ~~170~~ 160 can continue to send layer-3 packets with the old address (of location 101) in the destination field as the old address is immediately replaced with the new address in router 120-C at the first hop. The packets containing the new address may then be accurately routed to network 151 now containing mobile node 110-B. As a result, correspondent node 160 may continue to operate with the same view of the sessions both before and after mobile node 110-A/B moves, and the session is not terminated by correspondent node 160.

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Please replace the paragraph beginning at page 16 line 11, with the following rewritten paragraph:

Packets sent from mobile node 110-A to correspondent node 160 will generally have 1.1.1.1 as the source address and 3.3.3.3 as the destination address. On the other hand, packets sent from correspondent node 160 to mobile node 110-A will have a source address of 3.3.3.3 and destination address of 1.1.1.1. As described below, the mobile node 101-A and correspondent node 160 may continue to send and receive packets with the same IP addresses even after mobile node 110-A moves, as described below.

Please replace the paragraph beginning at page 17 line 2, with the following rewritten paragraph:

Server 140 configures router 120-B to translate the ~~old~~ new address to new ~~old~~ address in the destination field of packets received from Internet 150. Similarly, server 170 also receives the old address and new address, and configures router 120-C to translate the old address (1.1.1.1) to the new address (2.2.2.2). A static route to send packets with the destination address of the old address to network 151 may also be configured in router 120-B as noted above with reference to step 240 of Figure 2.

Please replace the paragraph beginning at page 22 line 11, with the following rewritten paragraph:

Figure 5 is a block diagram illustrating the details of an embodiment of server 140 as relevant to several aspects of the present invention. Server ~~130~~ 140 is shown containing network interface 510, parser 520, SIP server block 530 and configuration block 540. Each block is described below in further detail.

Please replace the paragraph beginning at page 22 line 15, with the following rewritten paragraph:

Network interface 310 provides an electrical and protocol interfaces to receive and send internet protocol (IP) packets on network ~~111~~ 151. Network interface 510 forwards received packets to parser 520. Similarly, packets received from configuration block 540

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are transmitted on network ~~111~~ 151. Network interface 310 may be implemented in a known way.

Please replace the paragraph beginning at page 23 line 11, with the following rewritten paragraph:

Thus, server 140 of Figure 5 can be used to configure router 120-B. It should be understood that when server 140 is integrated with router ~~130~~ 120-B into one unit/box, configuration block 540 may merely need to store a NAT entry in a NAT table (not shown) internal to the unit/box.